

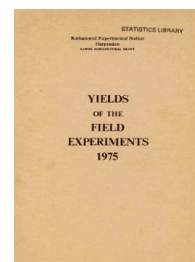
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Yields of the Field Experiments 1975

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75/ R/G4/1 - Effects of Fungicides & Insecticide - Sweedes

Rothamsted Research

Rothamsted Research (1976) 75/ R/G4/1 - *Effects of Fungicides & Insecticide - Sweedes* ; Yields Of The Field Experiments 1975, pp 377 - 378 - DOI: <https://doi.org/10.23637/ERADOC-1-141>

75/R/SW/1

SWEDES

EFFECTS OF FUNGICIDES AND INSECTICIDE

Object: To study the effects of fungicides and insecticide on mildew, viruses and yield of swedes sown early or late - Long Hoos V 4.

Sponsors: J.F. Jenkyn, C.J. Rawlinson.

Design: 3 randomised blocks of 12 plots.

Whole plot dimensions: 1.91 x 5.49.

Treatments: All combinations of:-

1. Sowing date:

SOWDATE

Early, 1 May

EARLY

Late, 23 June

LATE

2. Chemicals and times of application:

CHEMICAL

None

NONE

Tridemorph to early growth

TR/E

Tridemorph to late growth

TR/L

Tridemorph to early + late growth

TR/EL

Tridemorph and pirimicarb to early + late growth

TR+PI/EL

Benomyl to early + late growth

BEN/EL

NOTES: (1) Dates of spraying:

SOWDATE EARLY to Early growth: 24 June, 25 July

SOWDATE EARLY to Late growth: 22 Aug, 1 Sept, 22 Sept

SOWDATE LATE to Early growth: 22 Aug, 1 Sept

SOWDATE LATE to Late growth: 22 Sept

An additional pirimicarb spray was applied to CHEMICAL TR+PI/EL - to SOWDATE EARLY on 13 June, to SOWDATE LATE on 25 July.

(2) Chemicals were applied in 340 l:-

Tridemorph at 0.53 kg, benomyl at 1.0 kg, pirimicarb at 0.14 kg.

Basal applications: Manures: (24:14:14) at 730 kg. Weedkiller:

Trifluralin ('Treflan' at 2.3 l in 340 l).

Seed: Wilhelmsburger, sown at 4.5 kg.

Cultivations: Ploughed: 19 Sept, 1974. NPK applied: 28 Apr, 1975.

Early-sown plots: Weedkiller applied and power harrowed: 30 Apr.

Seed sown: 1 May.

Late-sown plots: Weedkiller applied, rotary cultivated and seed sown: 23 June.

Lifted: 24 Nov. Previous crops: Potatoes 1973, wheat and barley 1974.

NOTE: Mildew and virus infections were assessed at intervals throughout the season.

75/R/SW/1

*** TABLES OF MEANS ***

ROOTS TONNES/HECTARE

| CHEMICAL SOWDATE | NONE | TR/E | TR/L | TR/EL | TR+PI/EL | BEN/EL | MEAN |
|---------------------|------|------|------|-------|----------|--------|------|
| EARLY | 20.6 | 21.5 | 23.6 | 28.4 | 35.4 | 32.4 | 27.0 |
| LATE | 19.8 | 25.9 | 16.9 | 20.8 | 21.3 | 27.5 | 22.0 |
| MEAN | 20.2 | 23.7 | 20.3 | 24.6 | 28.3 | 30.0 | 24.5 |

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

| TABLE | SOWDATE | CHEMICAL | SOWDATE CHEMICAL |
|-------|---------|----------|---------------------|
| SED | 1.25 | 2.16 | 3.06 |

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

| STRATUM | DF | SE | CV% |
|----------|----|------|------|
| BLOCK.WP | 22 | 3.74 | 15.3 |

ROOT NUMBER THOUSANDS/HECTARE

| CHEMICAL SOWDATE | NONE | TR/E | TR/L | TR/EL | TR+PI/EL | BEN/EL | MEAN |
|---------------------|-------|-------|-------|-------|----------|--------|-------|
| EARLY | 111.1 | 119.6 | 102.6 | 121.7 | 104.7 | 114.8 | 112.4 |
| LATE | 86.1 | 85.6 | 89.3 | 92.5 | 81.3 | 75.5 | 85.0 |
| MEAN | 98.6 | 102.6 | 95.9 | 107.1 | 93.0 | 95.1 | 98.7 |

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

| TABLE | SOWDATE | CHEMICAL | SOWDATE CHEMICAL |
|-------|---------|----------|---------------------|
| SED | 5.57 | 9.65 | 13.65 |

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

| STRATUM | DF | SE | CV% |
|----------|----|-------|------|
| BLOCK.WP | 22 | 16.72 | 16.9 |

PLOT AREA HARVESTED 0.00063